

20030804.qrp v03_n002.qrl.20030804

Date: Mon, 4 Aug 2003 19:03:06 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 3002

QRP-L Digest 3002

Topics covered in this issue include:

- 1) [155377] Re: SUSE ???
by Bob Nielsen <nielsen@oz.net>
- 2) [155378] Re: FOx
by Lloyd Lachow <llachow@yahoo.com>
- 3) [155379] RE: OT: Linux C @ Sam's Club > Lindows is Debian
by "Niel Skousen" <skousen@srv.net>
- 4) [155380] Re: [fpqrp] RUN FOR THE BACON
by "NR5A" <nr5a@rap.midco.net>
- 5) [155381] Re: Island Cutter Method
by Brad Thompson <Brad.Thompson@valley.net>
- 6) [155382] KG6CYN DDS - Mini Circuits ERA-1SM Group Buy
by "Gene - NN7CK" <nn7ck@mindspring.com>
- 7) [155383] More wine, anyone? [Long]
by "Nick Kennedy" <nkennedy@tcainternet.com>
- 8) [155384] Re: K7QO's Timely Tip.
by Chuck Adams <k7qo@commspeed.net>
- 9) [155385] [OT] Re: SUSE ???
by K7VO <k7vo@earthlink.net>
- 10) [155386] OT: Linux Computer at Sam's Club !
by Howard Teller <hteller@comcast.net>
- 11) [155387] Re: Bands & QRP Kit
by Tom Severt <n2uhc@yahoo.com>
- 12) [155388] Re: K7QO's Timely Tip.
by "Kevin M., KC8SFJ" <adverseyaw@twmi.rr.com>
- 13) [155389] Re: Island Cutter Method (correction)
by DK3RED@t-online.de (Ingo Meyer DK3RED)
- 14) [155390] Re: Bands & QRP Kit
by "Trevor Jacobs" <kg6cyn@softhome.net>
- 15) [155391] Re: Bands & QRP Kit
by M Taylor <mctylr@privacy.nb.ca>
- 16) [155392] Re: K7QO's Timely Tip.
by "Dennis Payton" <dpayton@fwi.com>
- 17) [155393] Re: K7QO's Timely Tip.
by "Leon Heller" <leon_heller@hotmail.com>
- 18) [155394] Mandrake (wasRe: SUSE ???)
by Paul <mooney@cytanet.com.cy>
- 19) [155395] Re: K7QO's Timely Tip...Slight Twist..

- by Chuck <WA6LTV@comcast.net>
- 20) [155396] Spartan Sprint Tonight!
by "John Huffman" <hjohnc@core.com>
- 21) [155397] Re: RUN FOR THE BACON [Special Piggie Freq?]
by Curt Milton <wb8yyy@yahoo.com>
- 22) [155398] Nice paddles
by Alex <kr1st@amsat.org>
- 23) [155399] Re: Bands & QRP Kit
by Jeremy Cowgar <jc@cowgar.com>
- 24) [155400] FOX: K3ESE Log 2.0
by Lloyd Lachow <llachow@yahoo.com>
- 25) [155401] Simple test gear
by "Noyce, Bill" <william.noyce@hp.com>
- 26) [155402] Re: Simple test gear
by "Noyce, Bill" <william.noyce@hp.com>
- 27) [155403] FS Like New IC-703 Transceiver
by wa2ncf@juno.com
- 28) [155404] Re: K7QO's Timely Tip...Slight Twist..
by "George, W5YR" <w5yr@att.net>
- 29) [155405] Re: FOx
by "George, W5YR" <w5yr@att.net>
- 30) [155406] Logging software and band output
by Noah Lorang <NoahLorang@nc.rr.com>
- 31) [155407] First Batch of BLT Kits in New Case shipped
by "Doug Hendricks" <ki6ds@dospalos.org>
- 32) [155408] Re: SuSE 8.2 Pro... - None Left
by "Michael Melland, W9WIS" <w9wis@charter.net>
- 33) [155409] White Mountain, Freq-Mite & AGC
by "Noyce, Bill" <william.noyce@hp.com>
- 34) [155410] Wired QRP
by Alex <kr1st@amsat.org>
- 35) [155411] Re: First Batch of BLT Kits in New Case shipped
by "John Sielke" <jsielke@pobox.com>
- 36) [155412] DSPx Open Source Code for the Elecraft KDSP2
by Eric Swartz WA6HHQ - Elecraft <eric@elecraft.com>
- 37) [155413] Re: FS Like New IC-703 Transceiver
by wa2ncf@juno.com
- 38) [155414] Fierce 1-Watter
by Steve Smith <sigcom@juno.com>
- 39) [155415] Re: More wine, anyone? [Long]
by J.Bennett@lboro.ac.uk
- 40) [155416] Tenna-Dipper and Audio Indicator
by Chuck Carpenter <w5usj@9plus.net>
- 41) [155417] Re: First Batch of BLT Kits in New Case shipped
by "Doug Hendricks" <ki6ds@dospalos.org>
- 42) [155418] RE: Nice paddles
by "Paul Ermisch" <paul@ermisch.com>
- 43) [155419] Low current replacement for 78L05

- by "Doug Hendricks" <ki6ds@dospalos.org>
- 44) [155420] Re: First Batch of BLT Kits in New Case shipped
by "John Sielke" <jsielke@pobox.com>
- 45) [155421] RE: Low current replacement for 78L05
by "Lyle Johnson" <wa7gxd@fidalgo.net>
- 46) [155422] Re: FS Like New IC-703 Transceiver
by wa2ncf@juno.com
- 47) [155423] Re: Low current replacement for 78L05
by "Jim Kortge, K8IQY" <jokortge@prodigy.net>
- 48) [155424] Re: Low current replacement for 78L05
by "Leon Heller" <leon_heller@hotmail.com>
- 49) [155425] Re: Simple test gear
by "Nick Kennedy" <nkennedy@tcainternet.com>
- 50) [155426] FOX: K3ESE log 2.1
by Lloyd Lachow <llachow@yahoo.com>
- 51) [155427] Re: [Elecraft] Hakko 936-12 T/C Soldering Station - PRICE DROP!
by "J. W. (Dub) Thornton" <dub@oklahoma.net>
- 52) [155428] FCC Site
by Michael Goins <mgoins@usa.net>

Date: Sun, 3 Aug 2003 15:50:43 -0700
From: Bob Nielsen <nielsen@oz.net>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [155377] Re: SUSE ???
Message-ID: <20030803225043.GA9264@n7xy.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Another thing about SuSe, is that it and Debian have the most support for ham applications (because hams are involved in the distribution organizations).

73,
Bob, N7XY

Date: Sun, 3 Aug 2003 16:41:36 -0700 (PDT)
From: Lloyd Lachow <llachow@yahoo.com>
To: Wayne Rogers <w5kdj@juno.com>,
a low-energy group <qrp-l@lehigh.edu>
Subject: [155378] Re: FOx
Message-ID: <20030803234136.24429.qmail@web41006.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

--- Wayne Rogers <w5kdj@juno.com> wrote:
>
> Please correct my power to 100mw, think you returned
> with 10w.

LOL!!!! Dude, I got your power right...I came back
with WOW!!! YOU WERE 60 OVER S9 HERE!!!!!!

Most amazing thing I ever seen.

=====

73, 72 es oo, Lloyd, K3ESE - Reisterstown, Maryland
multiPIG+ #14 - K1 # 00379 - 20/40M Rock-Mites
Hunk o' Wahr - Begali Magnetic Classic Paddles
ARRL - ARS #1301 - QRParci #11147 - FISTS #8774
FPQRP #476 - QRP-L #2415 - BORG #2
Fun = Skill / Power ! 8^D

Do you Yahoo!?
Yahoo! SiteBuilder - Free, easy-to-use web site design software
<http://sitebuilder.yahoo.com>

Date: Sun, 3 Aug 2003 19:51:40 -0400
From: "Niel Skousen" <skousen@srv.net>
To: <qrp-l@lehigh.edu>
Subject: [155379] RE: OT: Linux C @ Sam's Club > Lindows is Debian
Message-ID: <NFBBIIMKOLCLMCKFACLDKEAGMBAA.skousen@srv.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Lindows is Debian under the hood. Been playing with it here and it is a
nice distro... You can get by without the pay subscription just fine

Niel

Date: Sun, 3 Aug 2003 18:06:52 -0600

From: "NR5A" <nr5a@rap.midco.net>
To: "qrp-1" <qrp-1@Lehigh.EDU>, "FPigs" <fpqrp-1@mpna.com>
Subject: [155380] Re: [fpqrp] RUN FOR THE BACON
Message-ID: <007a01c35a1c\$4f0cd110\$3865dc18@jerry>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Contest has started, due to my son visiting this week and the major deck building project we have going on out back I'm only going to check 14064 for PSK sigs every so often. I will be in and out, but hopefully will be able to work someone.

Jerry - NR5A - South Dakota
FP-585

----- Original Message -----

From: "Jerry Ford" <benlightnd13@mchsi.com>
To: "qrp-1" <qrp-1@Lehigh.EDU>; "FPigs" <fpqrp-1@mpna.com>
Sent: Tuesday, July 29, 2003 12:44 PM
Subject: [fpqrp] RUN FOR THE BACON

> Ladies and Gentlemen:

>

> I would like to invite you to come out an play in the upcoming " RUN
> FOR THE BACON " QRP sprint
> sponcored by The Flying Pigs QRP Club, International.

>

> <http://www.fpqrp.com/fpqrpapun.html>

>

> This is a 2 hour sprint to be held this coming Sunday evening.
> The official date and time are Monday, 4th of August from 0000z to
> 0200z

>

> This is a simple exchange of RST, SPC, & FP # or pwr out.
> Reporting can be accomplished by e-mail, USPS,
> or by using the newly designed " AUTOLOG "
> available on the web page.

>

> <http://www.fpqrp.com/fpqrpapun.html>

>

> QSO points:

>

> Work a FP member = 3 points
> Work a FP member (different continent) = 5 points
> Work non-member = 1 point

>

> (Work each station once per band on CW, SSB, or PSK) (suggested
 > freq's for each mode on the web page)
 >
 > Multipliers:
 >
 > S / P / C total for all bands
 > Work more than 50 FP members X 2
 >
 > This is going to be a fun sprint and a nice relaxing way to wrap up
 > the weekend.
 >
 > I hope you will all join us in the fun.
 >
 > 72 / 73 Jerry N0JRN
 >
 >
 >
 >
 >
 >
 >
 > FP # 546, ARS # 923, ARCI # 11049, ARRL,
 > Springfield, Mo. <http://home.mchsi.com/~n0jrn/>
 > MP + # 8, K 1 # 608, SW 20 +, TT 1340 , RM 20 &
 > 40, Tiny Tornado 20, 30, 40, 80, SMK - 1
 > and so on and so on
 >
 >
 > -To unsubscribe, mail to majordomo@fpqrp.com, msg: unsubscribe fpqrp-l -
 >

 Date: Sun, 03 Aug 2003 20:12:41 -0400
 From: Brad Thompson <Brad.Thompson@valley.net>
 To: DK3RED@t-online.de,
 "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
 Subject: [155381] Re: Island Cutter Method
 Message-ID: <5.0.2.1.2.20030803192546.01c2b930@pop3.norton.antivirus>
 Mime-Version: 1.0
 Content-Type: text/plain; charset="us-ascii"; format=flowed

Hello--

Should the second method's address be...

<http://www.t-online.de/en/s9.htm>

...? I couldn't get the original address to respond, and since I don't read German the resultant web page didn't help me.

In an ideal world, I'd like to have time to 1.) modify a CAD program to include Islander pads as objects, and 2.) get a bunch of board built with DIP patterns etched in various places, with plated-through holes for reliability, and the remainder of the board solid planes of tinned copper.

I believe that one could use a standard PC layout program to fulfill item 1 simply by specifying large pads for component through-hole leads.

On item 2, I've come close by using a 0.25-inch paper punch to create pads from thin single-sided copperclad and anchoring these in place on an unetched sheet of copperclad with a sliver of hot-melt glue. I stack the pad onto the sliver of glue and then tin the pad's copper side. The glue melts and secures the pad to the ground plane. Caveats: the copperclad ground plane must be free of oil or copper oxide for best adhesion; use high-temperature glue, not caulking compound or low-temperature glue; the pad tends to skate on its film of molten glue--use a "third hand" to fix the pad in place while you solder the components' leads to the pad.

I thought that I had found an interesting alternative in the form of a punch labeled "Paper Shapers" at an OfficeMax store. Marked down from \$6.99 to \$3.50, this punch creates a six-petal flower shape that measures approximately 9/16 inch in diameter. The petals are approximately 1/8 inch wide at the widest part. You can no doubt envision where I wanted to go with this--stick the petals onto the ground plane with a sliver of hot melt glue, and voila! A nifty six-fingered pad that would be easier to solder leads onto than a round pad.

Alas, the Paper Shaper's plastic punch lever snapped on my first try. I removed the plastic case and forced the punch through the copperclad by using my drill press as an arbor press. That works, but I won't hazard a guess as to how long the punch will survive in this application. The metal resembles die-cast alloy of some sort.

There are probably better punches Out There-- does anyone in the group work with leather, and if so, do similar (but more robust) punches exist?

73--

Brad AA1IP

"A journey of a thousand miles... starts with a visit to the bathroom."

At 09:02 PM 08/03/2003 +0200, Ingo Meyer DK3RED wrote:

>Hello Mark,

>

>>I'm about to try my first island cut circuit board. I have a 14 pin and a

>>16 pin IC to install. Any websites showing examples of how to do this?

>>Also, is there some sort of method of laying out the circuit with a CAD

>>program and using this as a template?

>

>The first method is from Dov AD0V (the father of the NJ Islander). He uses

>sockets with long legs and bend the pins outward.

><http://www.njqrp.org/qhbextra/7/7m.html>

>

>The second method is from me.

><http://www.t-online.de/en/s9.htm#wz1>

>

>72/73 de Ingo, DK3RED Don't forget: the fun is the power!

>

> dk3red@t-online.de <http://www.t-online.de/~dk3red>

> DL-QRP-AG #824 <http://www.dl-qrp-ag.de>

> QRP ARCI #11295 <http://www.qrparci.org>

>

Date: Sun, 3 Aug 2003 20:21:42 -0400

From: "Gene - NN7CK" <nn7ck@mindspring.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Cc: <nn7ck@arrl.net>

Subject: [155382] KG6CYN DDS - Mini Circuits ERA-1SM Group Buy

Message-ID: <[002c01c35a1e\\$615fe8a0\\$0902a8c0@earthlink.net](mailto:002c01c35a1e$615fe8a0$0902a8c0@earthlink.net)>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Unless I missed it, there hasn't been a group organized buy for the ERA-1SM

needed for the DDS project and meet the Mini Circuits minimum order policy.

If there is enough interest in a group buy for this part I'll take it on.

While we are at it if anyone needs any other part from the Mini Circuits on-line catalog I don't see any reason not to add these to the list.

So, Step 1 ... Lets see if there is enough interest ...

If you want to be a part of this please e-mail me. Please COPY THE ABOVE SUBJECT LINE IN YOUR EMAIL. I get about 200 emails a day so I use filters and I'm creating on based on that subject line for this buy.

If there is enough interest I'll make another post with the details.

73 ... Gene

Date: Sun, 3 Aug 2003 20:15:37 -0700
From: "Nick Kennedy" <nkennedy@tcainternet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [155383] More wine, anyone? [Long]
Message-ID: <02bd01c35a36\$ad437940\$0400000a@wa5bdu>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 8bit

Executive overview: This post is about-->

- 1) Using a lamp for automatic gain control.
- 2) Wein Bridge audio oscillators
- 3) Implementing a WB oscillator with discrete transistors
- 4) Drawing schematics in ASCII for email / net postings

My last post on the subject of the Wein bridge audio oscillator involved an op-amp oscillator with a JFET for AGC. But I really had my heart set on the light bulb AGC since that seems so "classic". Another thing that would be "classic" would be an amplifier using discrete transistors instead of an op-amp. Jeff Furman, AD5MX provided a good solution for that with a spice list posting, although his AGC used diodes rather than a lamp.

Finding the right lamp was a problem. At first impulse, I figured some little-bitty grain of wheat type bulb would be ideal. But no--those have

way too low a resistance. I'd like a resistance of at least a few hundred ohms that changes significantly with just one or two ma of current change to give adequate feedback. None of the stuff in my junk box tested out any good. But I notice that published circuits were using higher voltage lamps, such as the #327, a 28 volt'er. So I figured I'd take a look at a night light bulb from Wal-Mart--a GE 120 volt 4 watt clear bulb. It looked really promising. It measured 343 ohms cold, 576 ohms at 2.1 ma, and 725 ohms at 2.8 ma. Change in resistance was about 200 ohms/ma. Calculated resistance at rated voltage would be 3,600 ohms. Imagine using a lamp at 1/850th of its rated power. That's what I'm doing. Should have a long life, eh? BTW, another drawback of this lamp is its size. It's the size that Christmas tree lights used to be back when they were full voltage.

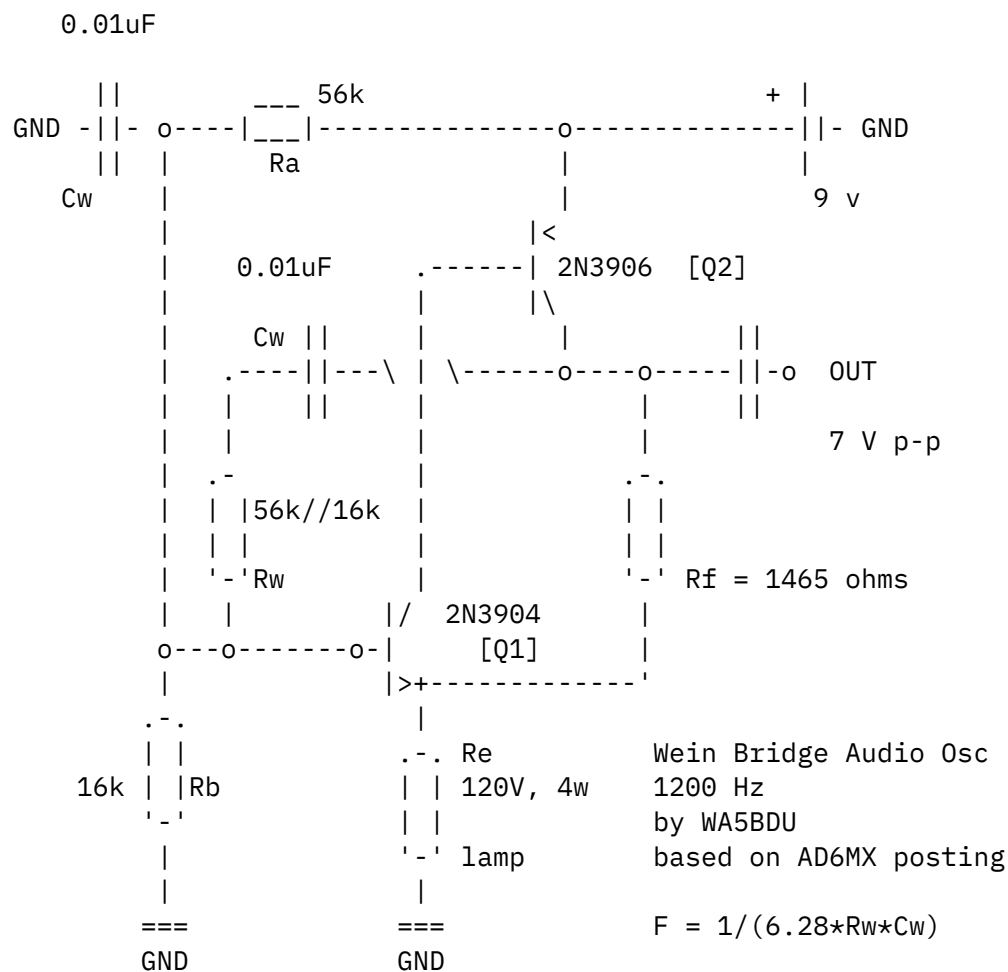
How about that transistor amplifier/oscillator? How do you make a translation from an op-amp with it's inverting and non-inverting inputs and ideal behavior, to a transistor amplifier? In this case it's a matter of finding the corresponding points. (See the ASCII drawing below) The "+" input is the base of Q1. If this voltage increases, Q1 is turned on harder and output also increases. The non-inverting input is the emitter of Q1. If this voltage increases, then V_{be} of Q1 *decreases*, causing output to fall. So the negative feedback path is from the output to the emitter via R_f and to ground via R_e . Just like in an op-amp, the gain is R_f/R_e . If you deleted components C_w (2) and $R_a//R_b$, you would have an amplifier instead of an oscillator.

The Wein bridge consists of two equal value resistors and two equal value capacitors. One R and one C are connected in series from the source, and the other R and C are connected in parallel from the series connected pair to ground. (See drawing at end of message.) At their junction, the phase angle is zero degrees and the voltage is 1/3rd the source voltage. This occurs at the frequency where $X_c = R$. In this circuit R_{b1} and R_{b2} do double duty as the bias resistor for Q1 and in forming the parallel 'resistor' R_w in the Wein bridge. [Thanks Jeff for 'splaining that.] So the other R_w in the series network consists of the same two values in parallel. BTW, I had been carelessly calling all oscillators with lamp AGC "Wein bridge", but that's not so. The lamp is the method of gain control and doesn't imply a Wein bridge phase shift network.

Now, for this thing to oscillate AND make a sine wave, the gain in the negative feedback path should equal exactly 3, to balance the 1/3 gain to the positive terminal. Too small, no oscillation; too large, large distortion (square wave). The need to be exact precludes the use of fixed gain setting components and requires instead some sort of AGC. Since a lamp's resistance will increase with increasing signal amplitude through it, it's a natural choice. OK, now where to put it is always a head scratcher. Make it part (or all) of R_f , or part (all) of R_e ? Let's see, we want gain to *decrease* when signal and lamp resistance *increase*. And $\text{Gain} = R_f/R_e$. So I need to put the lamp in R_e .

I need a bit more quiescent current than Jeff had, because I want to warm up the lamp into the region I did my measurements in, one to two ma. I'm trying to decide whether to use some "real" resistance in series with R_e . But no, the current comes out just about right with the transistor biased for V_e at 1.5 volts with just the lamp there. And I want to keep the 1.5 volts. That's because the negative feedback divider is 3/1 in voltage ratio from the output to the emitter. That gives me 4.5 volts at the output, half of V_{cc} , so I can get maximum output swing. So the lamp alone will be R_e . I'm saying from my measurements that it's R will be about 600 ohms. (Remember, total current will include quiescent DC plus signal feedback.) So R_f needs to be about twice that or 1200 ohms. But 'about' covers a lot of territory, so I'll start with a 5k pot for R_f and switch to fixed later ...

Let me show the schematic before going further. It will be interesting to know if it comes out readable. More to come on that ...



created by Andy s ASCII-Circuit v1.22.310103 Beta www.tech-chat.de

OK, now time to fire it up. After correcting one wiring error, it sprang to life. Waveform flat-topped a bit. Adjust Rf and there's a beautiful sine wave. Also, I was shooting for 1200 Hz and my counter shows 1206! But that part was 5% skill and 95% luck.

It's really interesting to play with. I can adjust the amplitude with the Rf pot, but it's most stable and most desirable (max amplitude) with just a little margin below the point of flat topping. Now, what about the fact that the lamp is only heated by 4.6 milliwatts? Will ambient temperature affect the thing? No doubt. As an experiment, I pull my high intensity desk lamp down to within a few inches of the oscillator lamp. The amplitude takes a big drop! Apparently just the radiant heat hitting the filament is enough to change the gain. Also, when I first start the circuit, I get a severely clipped waveform that takes maybe 5 seconds to fall down into the nice sine shape. Better not key this one.

It just takes a while for that 4.6 mw to warm the filament up. I don't expect this to be a practical concern in an air conditioned environment, but an adjustment of quiescent current upward ought to make the thing less subject to ambient.

Oh yeah, I measured the pot used for Rf and the resistance for optimum operation was 1462 ohms.

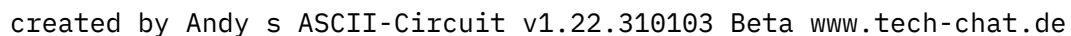
That should mean my lamp is warming up to 731 ohms.

About ASCII drawings.

I sometimes read the sci.electronics.design newsgroup using Google Groups, where some pretty heavy designers like Win Hill (Art of Electronics) sometimes post articles including really nice looking schematics done in ASCII. Postings revealed that a lot of folks were using the freeware ASCII-Circuit drawing program available from the link given below the posting. Back in the DOS days, there were a lot of nice ASCII drawing programs, but those days are long gone. This one lets you draw electronic circuits in Windows. You can save the circuit in its native format, or in plain text, to be pasted into an email or posting.

A big problem is that a lot of people aren't going to be able to see the posted circuit correctly. I remember a guy once posted a crystal filter design that took forever for me to be able to see correctly. I had to past it into Notepad and hack on it a while to make it viewable.

Here's another one, just the Wein network to go along with the earlier discussion:



There you go. Apologies for taking up so much space, and thanks to Jeff Furman for the lesson on the Wein Bridge and the two-stage NPN/PNP audio amplifier.

72--Nick, WA5BDU

Date: Mon, 04 Aug 2003 02:19:34 +0100
From: Chuck Adams <k7qo@commspeed.net>
To: k5kw@onrampok.com,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [155384] Re: K7Q0's Timely Tip.
Message-ID: <5.2.1.1.0.20030804021821.00b71958@mail.commspeed.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 03:40 PM 8/3/2003 -0500, K5KW wrote:

>My hat's off to Chuck Adams, K5Q0, for a great idea that I'm embarrassed to
>say never crossed my mind. Although I've used Krylon clear spray for years,
>just never thought of spraying a stuffed circuit board with it to retard
>board corrosion and discoloration. Thanks, Chuck.

>

>Don, K5KW

>Lurking in old Fort Gibson, oldest town in Oklahoma.

Be careful. I spray the board BEFORE I do the Manhattan building
on it. I do not recommend ever spraying a completed board with
Krylon (tm). The paint will react in an unfavorable way with the
plastic parts..... Haven't tried it but do not do this.

dit dit

Chuck Adams K7Q0 k7qo@commspeed.net
<http://www.qsl.net/k7qo> CP-60

Date: Sun, 3 Aug 2003 21:20:11 -0400
From: K7V0 <k7vo@earthlink.net>
To: mooney@cytanet.com.cy
Cc: qrp-l@lehigh.edu
Subject: [155385] [OT] Re: SUSE ???
Message-ID: <20030803212011.4049dfbc.k7vo@earthlink.net>

Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

On 03 Aug 2003 23:44:22 +0300

Paul <mooney@cytanet.com.cy> wrote:

>

> Like all linux distributions, mandrake is covered by the GPL so
> there's no problems with copying & distributing.

Hi, Paul, and everyone else,

You are correct in pointing out that the downloadable version of Mandrake is licensed under the GPL. The boxed version is NOT, as it contains commercial applications.

Also, not all Linux distributions are GPLed. Some add proprietary code and weave it in so that separating it out is difficult for the average user. Examples of Linux distributions with per-seat licensing would be United Linux, SCO, Lindows, and Yellow Dog Linux on the Mac. There is no reason you cannot redistribute GPLed code out of these distros, but the proprietary parts would have to be excluded.

72/73,

Caity

K7VO

Date: Sun, 03 Aug 2003 22:20:21 -0400

From: Howard Teller <hteller@comcast.net>

To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>

Subject: [155386] OT: Linux Computer at Sam's Club !

Message-ID: <3F2DC2E5.4DD27F80@comcast.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

For what it is worth, I recently bought a couple of IBM 300G1 computers on Ebay, one for \$56 and one for \$65, plus shipping that are completely satisfactory for my ham use with CD-ROM, Floppy, 6 GB hard drive, modem, 64MB ram and Pentium 350 processor. Shipping was usually around \$30. One even accidentally came with Windows 98SE, but I also installed Lycoris on one successfully.

Perhaps this is an alternative to a Walmart machine, but at a cheaper price. I took a risk (under \$100) but it all worked out and I am very satisfied with both machines, which are quiet and well shielded with two serial ports. There seem to be a lot of such computers taken out of corporate service and sold by the pallet.

Skip KH6TY

Date: Sun, 3 Aug 2003 20:08:13 -0700 (PDT)
From: Tom Severt <n2uhc@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [155387] Re: Bands & QRP Kit
Message-ID: <20030804030813.40610.qmail@web9605.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

--- Jeremy Cowgar <jc@cowgar.com> wrote:

> Anyway, I am looking to get back into the hobby and
> need to purchase a
> simple QRP kit.

Well I must say that I'm very happy with the Small Wonder Labs Small Wonder series. I have built a Small Wonder 20+ and 40+, and plan to get a 30+ kit. Definitely worth checking out. The Rock Mites also look neat, but I haven't built one. The price isn't bad either, with the SW series going for \$55 for the board only. Case & knob set is extra, but I have a well-stocked junk box so didn't bother with that.

I have no affiliation with Small Wonder Labs.

=====

Tom Severt N2UHC
<http://www.geocities.com/n2uhc>

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Date: Sun, 3 Aug 2003 23:43:06 -0400
From: "Kevin M., KC8SFJ" <adverseyaw@twmi.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [155388] Re: K7Q0's Timely Tip.
Message-ID: <001201c35a3a\$8438e4f0\$65dc0a0a@magnus>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have used regular clear coat on completed PC boards with no problem. However, I haven't had any plastic parts on board that would have been affected.

I also use it on double sided boards before I etch them. This keeps the ground plane intact. I had had varied results using tape to mask off the ground plane and find the clear coat works well and comes off with the solvent I use to remove the PnP blue film.

73/72 - Kevin, W8VOS

----- Original Message -----

From: "Chuck Adams" <k7qo@commspeed.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, August 03, 2003 9:19 PM
Subject: Re: K7Q0's Timely Tip.

At 03:40 PM 8/3/2003 -0500, K5KW wrote:

>My hat's off to Chuck Adams, K5Q0, for a great idea that I'm
embarrassed to
>say never crossed my mind. Although I've used Krylon clear spray for
years,
>just never thought of spraying a stuffed circuit board with it to
retard
>board corrosion and discoloration. Thanks, Chuck.
>
>Don, K5KW
>Lurking in old Fort Gibson, oldest town in Oklahoma.

Be careful. I spray the board BEFORE I do the Manhattan building on it. I do not recommend ever spraying a completed board with Krylon (tm). The paint will react in an unfavorable way with the plastic parts..... Haven't tried it but do not do this.

dit dit

Chuck Adams K7Q0 k7qo@commspeed.net
<http://www.qsl.net/k7qo> CP-60

Date: Mon, 04 Aug 2003 05:52:24 +0200
From: DK3RED@t-online.de (Ingo Meyer DK3RED)
To: qrp-l@lehigh.edu
Subject: [155389] Re: Island Cutter Method (correction)
Message-ID: <5.2.1.1.1.20030804055101.009eb370@pop.btx.dtag.de>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Sorry,

The korrekt URL is

><http://home.t-online.de/home/dk3red/en/s9.htm#wz1>

TNX to Greg!

72/73 de Ingo, DK3RED Don't forget: the fun is the power!

dk3red@t-online.de	http://www.t-online.de/~dk3red
DL-QRP-AG #824	http://www.dl-qrp-ag.de
QRP ARCI #11295	http://www.qrparci.org

Date: Sun, 3 Aug 2003 21:06:07 -0700
From: "Trevor Jacobs" <kg6cyn@softhome.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>,
jc@cowgar.com
Subject: [155390] Re: Bands & QRP Kit
Message-ID: <006501c35a3d\$bcf6c660\$9315f4d8@tjacobs>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I agree with Tom 100%! Dave does a fantastic job at Small Wonder Labs, and the kits are not only affordable but very functional as well. You'll get a fully functional transceiver kit for \$55. I've built the SW+ series, the DSW series rigs and the Rock Mites and they are very well engineered and easy to put together, even for the first time builder. Plus if you run into trouble, Dave will be there to bail you out, along with many members of this list who have built the rigs. You can't go wrong...

As far as the bands go, I'd start out with a 40 meter rig if you have the antenna for it, or a 20 meter rig. I always seem to be able to stir up a QSO on these bands even at 1 watt or less. Take care...

73's Trev KG6CYN
<http://www.qsl.net/kg6cyn>

----- Original Message -----

From: Tom Severt <n2uhc@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Sunday, August 03, 2003 8:08 PM
Subject: Re: Bands & QRP Kit

>
> --- Jeremy Cowgar <jc@cowgar.com> wrote:
>
> > Anyway, I am looking to get back into the hobby and
> > need to purchase a
> > simple QRP kit.
>
> Well I must say that I'm very happy with the Small
> Wonder Labs Small Wonder series. I have built a Small
> Wonder 20+ and 40+, and plan to get a 30+ kit
> Definitely worth checking out. The Rock Mites also
> look neat, but I haven't built one. The price isn't
> bad either, with the SW series going for \$55 for the
> board only. Case & knob set is extra, but I have a
> well-stocked junk box so didn't bother with that.
>
> I have no affiliation with Small Wonder Labs.
>
>
> =====
> Tom Severt N2UHC
> <http://www.geocities.com/n2uhc>
>
> _____
> Do you Yahoo!?
> Yahoo! SiteBuilder - Free, easy-to-use web site design software
> <http://sitebuilder.yahoo.com>

Date: Mon, 4 Aug 2003 05:22:01 +0100
From: M Taylor <mctylr@privacy.nb.ca>
To: Jeremy Cowgar <jc@cowgar.com>

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [155391] Re: Bands & QRP Kit
Message-ID: <20030804052201.A3546@pull.privacy.nb.ca>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

On Sat, Aug 02, 2003 at 10:01:10PM -0400, Jeremy Cowgar wrote:

>
> Anyway, I am looking to get back into the hobby and need to purchase a
> simple QRP kit.
>
> Not having a HF reciever right now, I am curious how the bands are? I
>
> Secondly, what's the suggested kit for say, under \$150.00? I have built

As your only transceiver, I cannot recommend the Rock-Mite, it's neat and works, but I think of it more as a novelty than a workhorse QRP radio. The lack of tuning and very simple receiver make it more of a novelty than your other options. I assume you would want a radio with a superhetrodyne receiver, and a VFO. Good filtering is also a good feature.

The Small Wonder Labs' DSW-II, or SW+ may be of interest, as well as the Oak Hill Research 100A, or Emtech NW and depending on your budget flexiablity, a Elecraft K1 (or K2) might interest you.

The eHam.net QRP reviews have some helpful comments on these various radios. <<http://www.eham.net/reviews/products/22>>

Is Wildness Radio (NorCal 40A, Sierra, and SST) still in business?

-ve1mct

Date: Sun, 3 Aug 2003 23:29:10 -0500
From: "Dennis Payton" <dpayton@fwi.com>
To: <qrp-1@Lehigh.EDU>
Subject: [155392] Re: K7Q0's Timely Tip.
Message-ID: <05d301c35a41\$09060770\$81a854d1@6300us>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I used to spray my completed projects with clear acrylic, but my elmer would really give me the business when I'd show up at his house with something

that didn't work, and he couldn't get a continuity reading anywhere! He'd have to hit every spot he wanted to test with a soldering iron first, to get rid of the insulating coating.

Nowadays, if I'm building on a groundplane, I'll initially coat the board with clear acrylic, then after it's finished and cleaned, mist it with silicone spray and go over it with a soft brush. Ladies' make-up brushes work well. If it's going to be exposed though, I think it would be more likely to attract dirt.

Denny Payton N9JXY
Auburn, IN

Date: Mon, 4 Aug 2003 07:47:21 +0100
From: "Leon Heller" <leon_heller@hotmail.com>
To: <dpayton@fwi.com>,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [155393] Re: K7QO's Timely Tip.
Message-ID: <Law15-DAV24utJLtosJ000137db@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

----- Original Message -----
From: "Dennis Payton" <dpayton@fwi.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, August 04, 2003 5:29 AM
Subject: Re: K7QO's Timely Tip.

> I used to spray my completed projects with clear acrylic, but my elmer
would
> really give me the business when I'd show up at his house with something
> that didn't work, and he couldn't get a continuity reading anywhere! He'd
> have to hit every spot he wanted to test with a soldering iron first, to
get
> rid of the insulating coating.
>
> Nowadays, if I'm building on a groundplane, I'll initially coat the board
> with clear acrylic, then after it's finished and cleaned, mist it with
> silicone spray and go over it with a soft brush. Ladies' make-up brushes
> work well. If it's going to be exposed though, I think it would be more

> likely to attract dirt.

I've got a spray on flux aerosol intended for protecting boards. It takes some time to dry, but works very well, and is easy to solder.

73, Leon

--

Leon Heller, G1HSM

leon_heller@hotmail.com

http://www.geocities.com/leon_heller

Date: 04 Aug 2003 10:57:52 +0300
From: Paul <mooney@cytanet.com.cy>
To: qrp-1@Lehigh.EDU
Subject: [155394] Mandrake (wasRe: SUSE ???)
Message-ID: <1059983872.1680.16.camel@paul-and-jeanette>
Content-Type: text/plain
Mime-Version: 1.0
Content-Transfer-Encoding: 7bit

I've had several requests for Mandrake & upped the number I'm sending out.

Sorry, reached my limit for despatches at this time. If I receive any further requests I'll pass onto those I'm posting to with a request to pass on, if they have the facilities to copy.

Paul M.

Date: Mon, 04 Aug 2003 07:33:44 -0400
From: Chuck <WA6LTV@comcast.net>
To: qrp-1@Lehigh.EDU
Subject: [155395] Re: K7Q0's Timely Tip...Slight Twist..
Message-ID: <29628532965619.29656192962853@icomcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-language: en
Content-transfer-encoding: 7BIT
Content-disposition: inline

I have a slight twist to spraying. When I built my 2n2-40 I plated my board before I started building. I didn't like the looks of tarnished copper board, after handling. I did extra boards for future projects at

the same time. After completing my radio, a couple of years later it still looks new. I used the KEPRO brand to do the tin plating. The initial cost is more, but as in the case of the 2n2-40, a serious radio the cost is worth every cent.

Thanks, Chuck
WA6LTV/4

> At 03:40 PM 8/3/2003 -0500, K5KW wrote:
>
> >My hat's off to Chuck Adams, K5Q0, for a great idea that I'm
> embarrassed to
> >say never crossed my mind. Although I've used Krylon clear spray
> for years,
> >just never thought of spraying a stuffed circuit board with it to
> retard board corrosion and discoloration. Thanks, Chuck.
> >
> >Don, K5KW
> >Lurking in old Fort Gibson, oldest town in Oklahoma.
>
>
> Be careful. I spray the board BEFORE I do the Manhattan building
> on it. I do not recommend ever spraying a completed board with
> Krylon (tm). The paint will react in an unfavorable way with the
> plastic parts..... Haven't tried it but do not do this.
>
> dit dit
>
>
>
> Chuck Adams K7Q0 k7qo@commspeed.net
> <http://www.qsl.net/k7qo> CP-60
>
>

Date: Mon, 4 Aug 2003 09:21:54 -0400
From: "John Huffman" <hjohnc@core.com>
To: <adventureradiosociety-announcements@mailman.qth.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [155396] Spartan Sprint Tonight!
Message-ID: <000d01c35a8b\$7c5a1be0\$7a075dd8@jhuffman1t>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Tonight is the August Adventure Radio Society Spartan Sprint. Two hours starting at 9 pm Eastern, 8 pm Central, 7 pm Mountain, 6 pm Pacific.

Exchange - Report, State (Province), Power as in: 559 MI 5W

Enjoy, and get your logs in by noon Wednesday. Results should be posted by Thursday.

Fill out the Autolog at www.ARSqrp.com/ars/ss_log.html

73 de NA8M

John

Contest Manager

Adventure Radio Society

Adventure Radio Society

Date: Mon, 4 Aug 2003 07:00:45 -0700 (PDT)
From: Curt Milton <wb8yyy@yahoo.com>
To: w5usj@9plus.net,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [155397] Re: RUN FOR THE BACON [Special Piggie Freq?]
Message-ID: <20030804140045.46273.qmail@web21403.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

It was obviously to see if we were awake! Its the operator responsibility to stay in band! I thot it was a typo at first but now i am sure it wasn't since it was on all modes!

I also wonder if anyone was on ssb or psk31 as i did not check myself.

Lots of nice activity for a small sprint contest.
let's do it again sometime. 2 hour window is nice!

curt wb8yyy fp#44

--- Chuck Carpenter <w5usj@9plus.net> wrote:
> Ooooppppps 27.185

>
>
> Chuck Carpenter, W5USJ, Point, Rains Co., TX -
> EM22cv, NETXQRP #1
> QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280,
> SOC #57
> Zombie #759, COG #11, 6 Club #201, FP #601
<http://www.netxqrp.org>

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Date: Mon, 04 Aug 2003 10:21:38 -0400
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [155398] Nice paddles
Message-ID: <3F2E6BF2.6958F809@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

While wasting time on Eham I was served with this image of these paddles
made from bicycle parts:

<http://www.eham.net/data/spotlight/images/0c149ec1df111e1458feaf9cdd54dbc2.T.jpg>

Unfortunately, no callsign was included with the description:

<quote from Eham>

My two hobbies combine in this set of portable paddles I made for my Ft
817.

All the part's are from bicycles exept for the guitar picks, the
resistance

is set by adjustable magnets which are from the sencer of a trip
computer.

</quote from Eham>

I thought it was pretty neat.

73,
--Alex KR1ST

Date: Mon, 04 Aug 2003 10:47:24 -0700
From: Jeremy Cowgar <jc@cowgar.com>
To: unlisted-recipients;; (no To-header on input)
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [155399] Re: Bands & QRP Kit
Message-ID: <3F2E9C2C.40606@cowgar.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Alot of recommendations for the SW and OHR. I selected the OHR-100A/30m. I did this for two main reasons, one minor reason, my antenna will be 28' up, and the OHR will push 5w instead of 2 1/2 ... not much more, but in respect, double the power. 2nd, I really enjoyed the filter option of the K2 I build a few years ago, and the OHR-100A has a 1.5khz-400hz IF filter... I think that will be a nice option. minor reason...OHR ships today, SW ships at minimum in 1 month.

30m selection seems to be a nice middle ground. Most of my operating will be in the evening, so 20m probably wouldn't be the best, and for 40m, I would really be pushing for space. I have plenty of land, but natural anchor points around my home are limited. Maybe some day, I'll put up some type of man-made pole to allow me to operate on 40 and 80 meters, but probably not this year.

Thank you for all the suggestions. I hope to be on the air soon, maybe we will get a chance to work each other.

Thanks again,

Jeremy
KB8LFA

Date: Mon, 4 Aug 2003 07:48:19 -0700 (PDT)
From: Lloyd Lachow <llachow@yahoo.com>
To: a low-energy group <qrp-l@lehigh.edu>
Cc: "Li'l Piggies" <fpqrp-l@mpna.com>
Subject: [155400] FOX: K3ESE Log 2.0
Message-ID: <20030804144819.57940.qmail@web41003.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Well, in between doing battle with the County

Hunters, I managed to give out about thirty pelts. Two of the loudest stations were W5JAY, about 60 over S9 with one watt, and W5KDJ, about 90 over with 100mW. Phantasmagorical, it was.

Toward the end, it was so quiet, I ran up and worked ET. Wish I coulda seen his face!

Thanks for playing! Corrections direct, please.

2205	W5YR	559	TX	George	5W
2205	K4MF	559	FL	Gary	5W
2206	W5TB	559	TX	Doc	5W
2207	K5SR	559	TX	Dale	5W
2208	K5JHP	559	TX	Bill	5W
2210	KK5NA	559	TX	Joe	5W
2216	W0EB	569	KS	Jim	4W
2218	AF4PS	559	FL	Mac	4W
2218	W7ILW	559	AZ	Howard	5W
2220	NA50	559	LA	Vern	5W
2221	K5EOA	559	LA	Wayne	5W
2222	N5ZE	559	TX	Lew	5W
2224	W5KDJ	559	TX	Wayne	100mW
2225	N5YFC	559	LA	Wayne	5W
2226	K0EVZ	569	NM	Doc	4W
2227	N5FFF	559	LA	Wayne	5W
2229	K5DI	559	NM	Karl	5W
2230	AC7A	539	AZ	Tom	5W
2232	K0MAX	329	MN	Max	5W
2234	N2WW	599	CO	Larry	5W
2236	N5IB	559	LA	Jim	5W
2237	AB9CA	559	AL	Dave	5W
2251	N0WX	559	MN	Mike	5W
2300	KK5LD	559	TX	Dan	5W
2306	AG4PJ	559	AL	Dave	5W
2309	C02HA	559	DX	Frank	5W
2319	N1FN	559	CO	ET/FOX	5W
2323	W5JAY	559	AL	Jay	1W
2327	K7FD	559	OR	John	5W
2330	K3ESE	MD	Lloyd	FOX	

=====

73, 72 es oo, Lloyd, K3ESE - Reisterstown, Maryland
multiPIG+ #14 - K1 # 00379 - 20/40M Rock-Mites
Hunk o' Wahr - Begali Magnetic Classic Paddles
ARRL - ARS #1301 - QRParci #11147 - FISTS #8774
FPQRP #476 - QRP-L #2415 - BORG #2
Fun = Skill / Power ! 8^D

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Date: Mon, 4 Aug 2003 11:18:30 -0400
From: "Noyce, Bill" <william.noyce@hp.com>
To: <qrp-l@Lehigh.EDU>
Subject: [155401] Simple test gear
Message-ID:
<6D6463F31027B14FB3B1FB094F2C74470347AFC5@tayexc17.americas.cpqcorp.net>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

My 80-meter transceiver has a push-pull output stage, which ought to minimize second-harmonic output. It also has a 5-element low-pass filter from the ARRL Handbook, but I chose one with a relatively high Fco, so it probably doesn't cut down the second harmonic very much. When I transmit into a dummy load, I can hear the signal on a 40-meter receiver, so I've been a bit worried about whether I was exceeding FCC limits on harmonic output. But I hadn't been able to think of a way to make a quantitative measurement. On an oscilloscope, the 80-meter signal looks like a nice sine wave, but of course it's hard to spot distortion that's only a few percent.

This weekend I had a brainwave. I built a bandpass/bandstop diplexer. I computed what inductor would have an impedance of 50 ohms at 3520 MHz -- it ended up as 24 turns on a T37-2. And a 50-ohm capacitor is about 900 pF, which I made of 680 paralleled with 220. One inductor and 900 pF capacitor is connected in series from the diplexer input to the output that passes

80-meter energy. Another inductor and 900 pF capacitor is connected in parallel from the input to the other output, which should pass everything else. I connected each output to a 50-ohm dummy load. This arrangement is supposed to present a 50-ohm impedance at the input at all frequencies.

When I transmitted at 3520 MHz into the diplexer and looked at the output ports with the oscilloscope, I could see a nice sine wave on the "80-meter" port, about 16 volts peak (32v p-p). On the "everything else" port, I had a distorted sine wave, about 1.6v peak -- in other words, about 20dB down. Not too bad for a thrown-together project. It appears that the resonant frequency is actually somewhat lower than designed, but it's good enough to make some measurements.

When I transmitted at 7040 MHz, both output ports showed approximately the same level, which I think is about what one should expect.

Back to that distorted sine wave. With 99% of the 80-meter signal removed, it's possible to see the harmonics that are left. The positive-going part of the wave is narrowed, and the negative-going part is widened, so that at a time halfway between the peaks the signal is about -0.4 volts. By drawing some pictures I convinced myself that this should be considered the peak-to-peak value of a second harmonic that was the cause of the distortion. (I didn't see any distortion that looked like third harmonic.)

A few calculations: 16v peak into 50 ohms means the transmitter was putting out about 2.5 watts. 0.2v peak means the 2nd harmonic was about 0.4 milliwatts on the output I measured, and presumably the same on the other output too. Total second harmonic power of 0.8 mW with a carrier of 2.5 W means the harmonic is -35 dBc. So this crude measurement says it's legal, but apparently my push-pull stage isn't as balanced as I had hoped. At least now I have a tool for improving it...

So, here's my question. Is this (a) brilliant, or (b) obvious, or (c) completely wrong-headed?

-- Bill, AB1AV

Date: Mon, 4 Aug 2003 11:52:32 -0400
From: "Noyce, Bill" <william.noyce@hp.com>
To: <qrp-l@Lehigh.EDU>
Subject: [155402] Re: Simple test gear
Message-ID:
<6D6463F31027B14FB3B1FB094F2C744703377E35@tayexc17.americas.cpqcorp.net>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

> When I transmitted at 3520 MHz into the diplexer and

> When I transmitted at 7040 MHz, both output ports

Of course I meant kHz here. (Thanks, George!)

-- Bill, AB1AV

Date: Mon, 4 Aug 2003 15:54:12 -0400
From: wa2ncf@juno.com
To: qrp-l@lehigh.edu
Subject: [155403] FS Like New IC-703 Transceiver
Message-ID: <20030804.155413.-1692395.0.wa2ncf@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

ICOM IC-703 purchased three months ago. Includes mike, power cable, manual, unopened accessory package and original packaging. Asking \$585.00 shipped in the US. Also have the UT-102 speech synthesizer unit purchased at the same time for \$50.00.

Tnx, Howie WA2NCF

wa2ncf@juno.com

The best thing to hit the internet in years - Juno SpeedBand!
Surf the web up to FIVE TIMES FASTER!
Only \$14.95/ month - visit www.juno.com to sign up today!

Date: Mon, 4 Aug 2003 11:32:38 -0500

From: "George, W5YR" <w5yr@att.net>
To: <WA6LTV@comcast.net>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [155404] Re: K7Q0's Timely Tip...Slight Twist..
Message-ID: <00e201c35aa6\$078e1990\$0401a8c0@PS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks, Chuck built my K2 - #489 - which I acquired in a trade with him. Close inspection of every soldered joint would lead you to believe that the entire board had been through a wave-soldering machine!

I have never seen the equal of the craftsmanship that Chuck displayed on this radio. It adds greatly to my pride of ownership.

Anything he says about building should be listened to!

73/72, George
Amateur Radio W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13QE
"In the 57th year and it just keeps getting better!"
<mailto:w5yr@att.net>

----- Original Message -----
From: "Chuck" <WA6LTV@comcast.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, August 04, 2003 6:33 AM
Subject: Re: K7Q0's Timely Tip...Slight Twist..

> I have a slight twist to spraying. When I built my 2n2-40 I plated my
> board before I started building. I didn't like the looks of tarnished
> copper board, after handling. I did extra boards for future projects at
> the same time. After completing my radio, a couple of years later it
> still looks new. I used the KEPRO brand to do the tin plating. The
> initial cost is more, but as in the case of the 2n2-40, a serious radio
> the cost is worth every cent.
>
> Thanks, Chuck
> WA6LTV/4

Date: Mon, 4 Aug 2003 11:37:36 -0500
From: "George, W5YR" <w5yr@att.net>
To: <llachow@yahoo.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [155405] Re: F0x
Message-ID: <010601c35aa6\$b758d8b0\$0401a8c0@PS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I don't know, Lloyd . . . haven't you come to expect signals like that from the NE-TX Tornados? <:}

Two more Clean Sweeps for Sunday's Hunts . . .

Sure appreciate you picking me up so early!

73/72, George
Amateur Radio W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13QE
"In the 57th year and it just keeps getting better!"
<mailto:w5yr@att.net>

----- Original Message -----

From: "Lloyd Lachow" <llachow@yahoo.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, August 03, 2003 6:41 PM
Subject: Re: F0x

> --- Wayne Rogers <w5kdj@juno.com> wrote:
> >
> > Please correct my power to 100mw, think you returned
> > with 10w.
>
>
>
> LOL!!!! Dude, I got your power right...I came back
> with WOW!!! YOU WERE 60 OVER S9 HERE!!!!!!
>

> Most amazing thing I ever seen.

Date: Mon, 04 Aug 2003 12:36:26 -0400
From: Noah Lorang <NoahLorang@nc.rr.com>
To: cq-contest@contesting.com, qrp-1@lehigh.edu
Subject: [155406] Logging software and band output
Message-ID: <5.1.0.14.0.20030804123622.02c2cea0@pop-server.nc.rr.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Sending this to the two lists most likely to know something.

I have an IC-745 and run Logger (16 bit version) and CT for normal and contest logging, respectively. The IC-745 outputs certain voltages through it's accessory port depending on what band is selected, designed to interface with linear amplifiers or antenna tuners.

My question is this: is there a hardware interface I can construct to translate those voltages into something that either of those two programs can read (CT, hopefully)? I only operate one mode per contest, so the only thing I have to switch when I QSY is the band, but it'd be nice if the software could automatically change bands when the rig does.

The 745 is NOT a computer controllable rig, so this kind of feature isn't built in a way that can connect directly to a computer.

Anyone have any way of accomplishing the above? Or, really ambitious, anyone modified the 745 enough to accept computer control? Anyone know of any antenna tuners that will tune based on band output?

Noah

Date: Mon, 4 Aug 2003 09:59:32 -0700
From: "Doug Hendricks" <ki6ds@dospalos.org>
To: "qrp-1" <qrp-1@lehigh.edu>
Subject: [155407] First Batch of BLT Kits in New Case shipped
Message-ID: <00dd01c35aa9\$c8c655c0\$1fdbd7a8@DOUG>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

All of the BLT kit orders that were waiting on the new cases to arrive have shipped. They just went to the post office. Thanks for your patience on this.

George is up to his eyeballs in work, but as soon as he can find time, he will post pictures of the new case on the AmQRP website at www.amqrp.org.

The new BLT has a few minor changes that make it much, much easier to build. First of all is the case. It is predrilled, all that you have to do is mount the components and put the case together. No more soldering the case parts together, and no more drilling with sweaty palms, worried that you will make a mistake.

Another new feature is a Pittsburg style pcboard that is used to build the N7VE LED SWR Bridge. The pads and traces are etched on the board, so there are no pads to glue, and no layout to figure out. It is all done for you.

The manual has been much improved, it has gone from 4 pages to 13 pages. I used a digital camera to give very detailed step by step instructions on how to build the tuner. And in a QRP kit first, this kit has the manual on a business card sized CD!! There are two files on the CD, one that has a "computer friendly" version, and one that has a printable version. This allowed me to use color illustrations, which I believe you will find to be quite useful. Several people encouraged me to use the CD rom manual, and I want to thank them publicly:

Dave Fifield, AD6A, James Bennett, KA5DVS, George Heron, N2APB, Gene Sailsbury, N0MQ, Mike Gipe, K1MG and Paul Maciel, AK1P

The use of the CD rom manual is a huge help to me, as it saves both time and money, which keeps the cost of the kits down. The manual will be on the AmQRP page soon, and you may all take a look at it there.

One of the reasons for the merger of NorCal and NJ QRP clubs into the American QRP Club was to allow us to do new and exciting things with our kits and publications. You are going to see the results of that very soon. The new journal, the Homebrewer, will knock your socks off. It is a full sized journal, 8.5 x 11", and has over 60 pages of fabulous articles by the top authors in QRP today. That issue is at the printers now, and will ship in about 2 weeks!! I can hardly wait. George Heron has done yeoman's work getting it edited and out, and I want to thank and congratulate him on his efforts. I believe that George is the best in the business.

Tomorrow, I will make an announcement on a new "Kits for Kids" program that I think will make a significant contribution to the welfare of QRP, and encourage our youth to be involved in our wonderful hobby. It will be a

partnership deal that involves you, and we need your involvement to make it work. Stay tuned. Again, American QRP Club has "encouraging and involving youth in QRP" as one of its goals. You will see us take action on that tomorrow. Stay tuned.

And speaking of staying tuned, if you would like to order a new case BLT, please go to www.amqrp.org , click on kits, and go to the BLT section for all the information. Kits are in stock and ship immediately, no waiting.

And finally, if you want to see pictures of the new BLT in its new case, send me an email with "BLT Pictures, I gotta see 'em" in the subject line, and I will send you a file with the pics included. It will be about 200k in size. 72, Doug

Date: Mon, 04 Aug 2003 12:06:53 -0500
From: "Michael Melland, W9WIS" <w9wis@charter.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [155408] Re: SuSE 8.2 Pro... - None Left
Message-ID: <003e01c35aaa\$cd49eca0\$4986e98d@winad.it.uwosh.edu>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7bit

All spoken for.....

Mike, W9WIS

Date: Mon, 4 Aug 2003 13:41:41 -0400
From: "Noyce, Bill" <william.noyce@hp.com>
To: <qrp-1@Lehigh.EDU>
Subject: [155409] White Mountain, Freq-Mite & AGC
Message-ID:
<6D6463F31027B14FB3B1FB094F2C74470347AFC7@tayexc17.americas.cpqcorp.net>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

I have a White Mountain SSB rig from Small Wonder Labs. It includes an option that reports its frequency in Morse at the push of a button. This output runs through the audio amplifier and pumps up the audio-derived AGC,

so that whatever I was listening to disappears for a long time after the Morse is through (feels like 10 seconds, but is probably less) until the AGC's hang expires.

Are there any published mods for eliminating or reducing this signal black-out caused by the frequency readout? No sense using trial & error inside a nice rig if someone else has already blazed the trail...

-- Bill, AB1AV

Date: Mon, 04 Aug 2003 13:44:56 -0400
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [155410] Wired QRP
Message-ID: <3F2E9B98.D5A2D1A5@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Wasting more time on Eham:

<http://www.eham.net/data/spotlight/images/19315f4395eaf490151fe3dee7a69d39.jpg>

The caption said something like "before hamradio!!!"

73,
--Alex KR1ST

Date: Mon, 04 Aug 2003 13:49:35 -0400
From: "John Sielke" <jsielke@pobox.com>
To: qrp-l@lehigh.edu
Subject: [155411] Re: First Batch of BLT Kits in New Case shipped
Message-ID: <3F2E646F.8619.543479A@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

Tried asking by private email, but didn't get through. I wonder if the new BLT is available WITHOUT the case, to build into other projects, etc.

John W2AGN

Date: Mon, 04 Aug 2003 11:11:18 -0700
From: Eric Swartz WA6HHQ - Elecraft <eric@elecraft.com>
To: Elecraft List <elecraft@mailman.qth.net>, QRP-L <qrp-l@lehigh.edu>, GQRP <gqrp@groups1.vip.scd.yahoo.com>
Subject: [155412] DSPx Open Source Code for the Elecraft KDSP2
Message-ID: <3F2EA1C6.2060508@elecraft.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

We have released the open source code for the DSPx processor used on the KDSP2 board for the K2. Our hope is that those of you who are interested in experimenting with DSP coding will be able to add new features to the KDSP2 and make them available to other KDSP2 owners via this page. Its also an excellent way to learn more about DSP programming. See:

<http://www.elecraft.com/KDSP2/sourcepage.htm>

73, Eric WA6HHQ
<http://www.elecraft.com>

Date: Mon, 4 Aug 2003 18:24:37 -0400
From: wa2ncf@juno.com
To: qrp-l@lehigh.edu
Subject: [155413] Re: FS Like New IC-703 Transceiver
Message-ID: <20030804.182438.-1743291.0.wa2ncf@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

oops. The price of the UT-102 speech synthesizer should be \$30 shipped in US.

Tnx, Howie WA2NCF

wa2ncf@juno.com

On Mon, 4 Aug 2003 15:54:12 -0400 wa2ncf@juno.com writes:
> ICOM IC-703 purchased three momths ago. Includes mike, power cable,
> manual, unopened accessory package and original packaging. Asking
> \$585.00
> shipped in the US. Also have the UT-102 speech synthesizer unit
> purchased

> at the same time for \$50.00.

>

> Tnx, Howie WA2NCF

>

> wa2ncf@juno.com

>

>

> -----
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>

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Surf the web up to FIVE TIMES FASTER!

Only \$14.95/ month - visit www.juno.com to sign up today!

Date: Mon, 4 Aug 2003 11:34:13 -0700

From: Steve Smith <sigcom@juno.com>

To: qrp-1@Lehigh.EDU

Cc: glowbugs@piobaire.mines.uidaho.edu

Subject: [155414] Fierce 1-Watter

Message-ID: <20030804.113413.-451225.2.sigcom@juno.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Anyone out there have a photo of this rig built by Rod Fitz-Randolph N5HV
(SK)? TNX

73.....Steve Smith WB6TNL

Oxnard, CA USA

"Snort Rosin"

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Date: Mon, 04 Aug 2003 19:35:41 +0100 (BST)

From: J.Bennett@lboro.ac.uk

To: nkennedy@tcainternet.com, Nick Kennedy <nkennedy@tcainternet.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [155415] Re: More wine, anyone? [Long]
Message-ID: <1060022141.3f2ea77d14c87@staff-webmail.lboro.ac.uk>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 8bit

Hi,

I really don't know what this post has got to do with wine, but if you are really into wine, try OPUS 1 from California!

Jack
G3PVG

Quoting Nick Kennedy <nkennedy@tcainternet.com>:

>
> Executive overview: This post is about-->
>
> 1) Using a lamp for automatic gain control.
> 2) Wein Bridge audio oscillators
> 3) Implementing a WB oscillator with discrete transistors
> 4) Drawing schematics in ASCII for email / net postings
>

Date: Mon, 04 Aug 2003 14:11:58 -0500
From: Chuck Carpenter <w5usj@9plus.net>
To: Buddy Brannan <davros@ycardz.com>, <fpqrp-l@mpna.com>, <qrp-l@lehigh.edu>
Subject: [155416] Tenna-Dipper and Audio Indicator
Message-ID: <3.0.2.32.20030804141158.00a7b6d0@mail.9plus.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Did some looking through my electronics library. Found a voltage to audio converter that uses an op amp and 555. It's in a book called "the 555 Timer Applications Sourcebook with Experiments" by Howard M. Berlin, second printing 1976.

This circuit was developed to help visually impaired hams adjust meters in old boat anchor rigs from that period.

The op amp connects across the meter and uses the voltage drop as the voltage source. The op amp is setup for a gain of 100 and feeds the 555. The audio pitch is inversely proportional to the voltage across the meter. The article doesn't say what op amp is used but I guess the 741, the op amp of the day. Parts needed are 8 resistors, two caps, a speaker and the ICs. Uses 12 V.

With some tweaking, 'Dipper and VCO, this circuit would probably work quite nicely connected across the 100 ohm resistor (R10) in the Tenna Dipper. I'll check it out when my 'Dipper arrives.

Seems like this would be a good audio indicator for the ZM-2 in place of or along with the visual SWR indicator.

Modern digital parts would probably do a better job easier but this looks pretty simple and useful to me. The IC parts are still around and not expensive.

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1
QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57
Zombie #759, COG #11, 6 Club #201, FP #601 oo <http://www.netxqrp.org>

Date: Mon, 4 Aug 2003 12:19:50 -0700
From: "Doug Hendricks" <ki6ds@dospalos.org>
To: "qrp-l" <qrp-l@lehigh.edu>
Cc: <jsielke@pobox.com>
Subject: [155417] Re: First Batch of BLT Kits in New Case shipped
Message-ID: <015001c35abd\$620d3f60\$1fdbd7a8@DOUG>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Yes it is for \$35 + \$4 and it comes with a free case. Seriously, no it is not. We will not break up kits. 72, Doug

Date: Mon, 4 Aug 2003 13:21:02 -0600
From: "Paul Ermisch" <paul@ermisch.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [155418] RE: Nice paddles

Message-ID: <NHBBIMAFPBCKANGJGAPDGEKICEAA.paul@ermisch.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Yes, very nice, what you can see of them in the tiny picture. Seems like this guy would make more of an effort to show off his handiwork. I'd like to know more.

Paul KB0LUR

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of Alex
Sent: Monday, August 04, 2003 8:22 AM
To: Low Power Amateur Radio Discussion
Subject: Nice paddles

While wasting time on Eham I was served with this image of these paddles made from bicycle parts:

<http://www.eham.net/data/spotlight/images/0c149ec1df111e1458feaf9cdd54dbc2.T.jpg>

Unfortunately, no callsign was included with the description:

<quote from Eham>

My two hobbies combine in this set of portable paddles I made for my Ft 817.

All the part's are from bicycles exept for the guitar picks, the resistance is set by adjustable magnets which are from the sencer of a trip computer.

</quote from Eham>

I thought it was pretty neat.

73,
--Alex KR1ST

Date: Mon, 4 Aug 2003 12:23:02 -0700
From: "Doug Hendricks" <ki6ds@dospalos.org>
To: "qrp-1" <qrp-1@lehigh.edu>

Subject: [155419] Low current replacement for 78L05
Message-ID: <015601c35abd\$d4344520\$1fdbd7a8@DOUG>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Can someone tell me the low current replacement for the 78L05. It needs to have the same pinout. Also, do I need to change the bypass caps from the ones I am currently using? (Talking about the NorCal Keyer circuit.) 72,
Doug

Date: Mon, 04 Aug 2003 15:39:28 -0400
From: "John Sielke" <jsielke@pobox.com>
To: qrp-l@lehigh.edu
Subject: [155420] Re: First Batch of BLT Kits in New Case shipped
Message-ID: <3F2E7E30.11411.5A7E61A@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

Thanks, couldn't hurt to ask.

John W2AGN

Date: Mon, 4 Aug 2003 12:56:19 -0700
From: "Lyle Johnson" <wa7gxd@fidalgo.net>
To: <ki6ds@dospalos.org>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [155421] RE: Low current replacement for 78L05
Message-ID: <NEBBKGGNGLGOHDJKFAPHIENOELAA.wa7gxd@fidalgo.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Go to www.digikey.com, do a search for regulators, then under ICs voltage regulators, then case T0-92 or T0-92-3, voltage 5. You'll see plenty to pick from, and you can drill down to the data sheets. Candidate parts include TI TL75L05, National LP2950, Zetex ZSR500C.

72/73,

Lyle KK7P

> -----Original Message-----

> From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of

> Doug Hendricks

> Sent: Monday, August 04, 2003 12:23 PM

> To: Low Power Amateur Radio Discussion

> Subject: Low current replacement for 78L05

>

>

> Can someone tell me the low current replacement for the 78L05.

> It needs to

> have the same pinout. Also, do I need to change the bypass caps from the
> ones I am currently using? (Talking about the NorCal Keyer circuit.) 72,

> Doug

>

>

>

Date: Mon, 4 Aug 2003 19:56:27 -0400

From: wa2ncf@juno.com

To: qrp-l@lehigh.edu

Subject: [155422] Re: FS Like New IC-703 Transceiver

Message-ID: <20030804.195628.-1749043.0.wa2ncf@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

The UT-102 is sold.

Tnx, Howie WA2NCF

On Mon, 4 Aug 2003 18:24:37 -0400 wa2ncf@juno.com writes:

> oops. The price of the UT-102 speech synthesizer should be \$30

> shipped in

> US.

>

> Tnx, Howie WA2NCF

>

> wa2ncf@juno.com

>

>

> On Mon, 4 Aug 2003 15:54:12 -0400 wa2ncf@juno.com writes:

> > ICOM IC-703 purchased three months ago. Includes mike, power
> cable,
> > manual, unopened accessory package and original packaging. Asking
> > \$585.00
> > shipped in the US. Also have the UT-102 speech synthesizer unit
> > purchased
> > at the same time for \$50.00.
> >
> > Tnx, Howie WA2NCF
> >
> > wa2ncf@juno.com
> >
> > -----
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>

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Date: Mon, 04 Aug 2003 16:18:11 -0400
From: "Jim Kortge, K8IQY" <jokortge@prodigy.net>
To: ki6ds@dospalos.org
Cc: qrp-1@lehigh.edu
Subject: [155423] Re: Low current replacement for 78L05
Message-ID: <5.2.0.9.1.20030804161540.0230a3c0@pop.prodigy.yahoo.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 12:23 PM 8/4/2003 -0700, you wrote:

>Can someone tell me the low current replacement for the 78L05.

One is the ST Electronics LE50CZ available from Mouser. There are others.

> It needs to
> have the same pinout.

It does.

> Also, do I need to change the bypass caps from the
> ones I am currently using?

The input cap at 0.1uF is fine, but the ST data sheet shows a
2.2uF tantalum on the output.

> (Talking about the NorCal Keyer circuit.)

Yes I know, I've had some recent experience with that kit! :-)

72,

Jim, K8IQY

Date: Mon, 04 Aug 2003 20:25:14 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: ki6ds@dospalos.org, qrp-1@Lehigh.EDU
Subject: [155424] Re: Low current replacement for 78L05
Message-ID: <Law15-F1141kPWhwCHh000214b7@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: "Doug Hendricks" <ki6ds@dospalos.org>
>Reply-To: ki6ds@dospalos.org
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: Low current replacement for 78L05
>Date: Mon, 4 Aug 2003 12:23:02 -0700
>
>Can someone tell me the low current replacement for the 78L05. It needs to
> have the same pinout. Also, do I need to change the bypass caps from the
> ones I am currently using? (Talking about the NorCal Keyer circuit.) 72,

Try the ST LE50CZ. They are LDO devices (0.2V) with 0.5 mA quiescent

current. They require a 2.2uF capacitor.

73, Leon

--

Leon Heller, G1HSM Tel: +44 1424 423947

Email:leon_heller@hotmail.com

My web page: http://www.geocities.com/leon_heller

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Date: Mon, 4 Aug 2003 15:34:25 -0700
From: "Nick Kennedy" <nkennedy@tcainternet.com>
To: <william.noyce@hp.com>,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [155425] Re: Simple test gear
Message-ID: <00e301c35ad8\$8f88f860\$0400000a@wa5bdu>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Interesting idea for a poor man's spectrum analyzer, Bill. Let me try a few observations 'blind' before I look at it on Electronic Workbench.

First, it looks like your source resistance on 80 meters will be 25 ohms, if I understand correctly that both series and parallel circuits are resonant there and both have 50 ohm loads connected to them.

Just guessing, I'd make the reactances of the series circuit a lot bigger--maybe 500 ohms or so. In fact, make 'em both series circuits and tune one to 80 and the other 40. But I'm taking wild stabs here. For a more thoughtful discussion, see VE7BP0's 'diplexer topics', which has contributions from Wes Hayward.

<<http://www.qrp.pops.net/dip2.htm>>

Regarding your 2nd harmonic content ... I seem to recall a discussion on this once. A 50% duty cycle square wave just has odd harmonics, but one with a shorter 'on' time had increasing 2nd harmonic content. Do you have enough drive?

But wait--you're using a push-pull amplifier. Is the nice sine wave you see

with or without the filter? Put another way, is this supposed to be a 'linear' amplifier? Either way, your filter should take out the harmonics, but I'm curious about how much you might have before filtering.

72--Nick, WA5BDU

----- Original Message -----

From: "Noyce, Bill" <william.noyce@hp.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

>
> This weekend I had a brainwave. I built a bandpass/
> bandstop diplexer. I computed what inductor would have
> an impedance of 50 ohms at 3520 MHz -- it ended up as
> 24 turns on a T37-2. And a 50-ohm capacitor is about
> 900 pF, which I made of 680 paralleled with 220. One
> inductor and 900 pF capacitor is connected in series
> from the diplexer input to the output that passes
> 80-meter energy. Another inductor and 900 pF capacitor
> is connected in parallel from the input to the other
> output, which should pass everything else. I connected
> each output to a 50-ohm dummy load. This arrangement
> is supposed to present a 50-ohm impedance at the input
> at all frequencies.
>

Date: Mon, 4 Aug 2003 13:49:11 -0700 (PDT)
From: Lloyd Lachow <llachow@yahoo.com>
To: a low-energy group <qrp-1@lehigh.edu>
Cc: "Li'l Piggies" <fpqrp-1@mpna.com>
Subject: [155426] FOX: K3ESE log 2.1
Message-ID: <20030804204911.12453.qmail@web41013.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

OK, Vern, AA50, we got you all fixed up, now. Any other corrections? Direct, please, and thank you.

2205	W5YR	559	TX	George	5W
2205	K4MF	559	FL	Gary	5W
2206	W5TB	559	TX	Doc	5W
2207	K5SR	559	TX	Dale	5W

2208	K5JHP	559	TX	Bill	5W
2210	KK5NA	559	TX	Joe	5W
2216	W0EB	569	KS	Jim	4W
2218	AF4PS	559	FL	Mac	4W
2218	W7ILW	559	AZ	Howard	5W
2220	AA50	559	LA	Vern	5W
2221	K5E0A	559	LA	Wayne	5W
2222	N5ZE	559	TX	Lew	5W
2224	W5KDJ	559	TX	Wayne	100mW
2225	N5YFC	559	LA	Wayne	5W
2226	K0EVZ	569	NM	Doc	4W
2227	N5FFF	559	LA	Wayne	5W
2229	K5DI	559	NM	Karl	5W
2230	AC7A	539	AZ	Tom	5W
2232	K0MAX	329	MN	Max	5W
2234	N2WW	599	CO	Larry	5W
2236	N5IB	559	LA	Jim	5W
2237	AB9CA	559	AL	Dave	5W
2251	N0WX	559	MN	Mike	5W
2300	KK5LD	559	TX	Dan	5W
2306	AG4PJ	559	AL	Dave	5W
2309	C02HA	559	DX	Frank	5W
2319	N1FN	559	CO	ET/FOX	5W
2323	W5JAY	559	AL	Jay	1W
2327	K7FD	559	OR	John	5W
2330	K3ESE	MD	Lloyd	FOX	

=====

73, 72 es oo, Lloyd, K3ESE - Reisterstown, Maryland
 multiPIG+ #14 - K1 # 00379 - 20/40M Rock-Mites
 Hunk o' Wahr - Begali Magnetic Classic Paddles
 ARRL - ARS #1301 - QRParci #11147 - FISTS #8774
 FPQRP #476 - QRP-L #2415 - BORG #2
 Fun = Skill / Power ! 8^D

 Do you Yahoo!?

Yahoo! SiteBuilder - Free, easy-to-use web site design software
<http://sitebuilder.yahoo.com>

Date: Mon, 04 Aug 2003 16:54:31 -0500
From: "J. W. (Dub) Thornton" <dub@oklahoma.net>
To: Tom Hammond <n0ss@earthlink.net>
Cc: qrp-1@lehigh.edu
Subject: [155427] Re: [Elecraft] Hakko 936-12 T/C Soldering Station - PRICE DROP!
Message-ID: <5.2.0.9.2.20030804165032.025a7548@mail.oklahoma.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Tom & group: <http://www.kiesub.com/hakko936.htm> lists the unit at \$89.95
with free shipping &
a large number of tips available on site.

"72" Dub

At 03:54 PM 8/4/2003 -0500, you wrote:

>Folks:

>

>I suspect we may not see much of this for a little while (maybe a month),
>but I just received a flyer from American Hakko, announcing that they have
>DROPPED the Manufacturer's Suggested Retail Price (MSRP) of their most
>popular T/C soldering station, the 936-12, from something around \$130 to
>\$89.00...!

>

>When this price reduction finally kicks in, we should be seeing some
>really competitive prices for this fine T/C station.

>

>Keep your eyes open and if you find a vendor which has dropped their
>pricing accordingly, please post it here.

Date: Mon, 04 Aug 2003 17:55:57 -0500
From: Michael Goins <mgoins@usa.net>
To: <qrp-1@lehigh.edu>
Subject: [155428] FCC Site
Message-ID: <377HHDw468544S02.1060037757@uwdvg002.cms.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Well, it took four phone calls, umpteem trips to the website, and loading=
JAVA, but I think I got what I needed accomplished.

Anyone have any idea how you actually know if a vanity call was accepted =

and
how to tell when it might be yours? Weeks, I would assume?

Thanks for the space.

72,
mike
wb5yjx
100% Solar station: SW20+, SW30+, NE4040, RockMite40
Mobile: FT-817 @ 1 watt, CW and SSB
QRP-ARCI 3922 (former managing editor, QRP Quarterly), =

SOC 54, Flying Pig 447, QRP-L 2130, Adventure Radio 810,
Alaska QRP 514, QCWA 30857

"Share what you know, learn what you don't."

End of QRP-L Digest 3002

